

ABSTRACT OF THE DISCLOSURE

A matrix calculator calculates multiplication of two matrices. The matrix calculator includes an element selecting portion for selecting elements from elements of the two matrices that would constitute sub-elements of each
5 element of a multiplication result matrix and sequentially outputs the selected element, a calculating portion for adding products of output from the element selecting portion and sequentially outputs the elements of the result matrix, and a control signal generating portion for generating a control signal that controls a timing of operation of the calculating portion and the storing
10 portion. Since the respective elements of the two matrices are sequentially selected to be multiplied and added, the elements of the multiplication result matrix, which are the sums of the sub-elements, can be calculated sequentially. Accordingly, since the matrix calculator can be constructed of one adder and one multiplier and a control circuit, the size of the circuit is reduced.